Published Daily Since 1829 in Providence, R.I.

Monday, July 21, 1969

38 PAGES

60 Cents Per Week Delivered Price

TEN CENTS

Man Takes First Moon Step

Nixon Speaks To Walkers on **Moon Surface**

Washington -(UPI) - President Nixon called the two astronauts on the phone today as they walked on the surface of the moon.

"Because of what you have done the heavens have become part of man's world," he said in a two-minute call that spanned 250,000 miles of space.

"Thank you, Mr. President. It's a great honor and privilege for us to be here, representing not only the United States but men of peace of all nations, men with interest and curiosity and men with a vision for the future. It's an honor for us to be able to participate here today," Neil Armstrong responded.

Nixon replied: "Thank you very much and I look forward, all of us look forward, to seeing you on the Hornet on Thursday.

Washington - (AP) - President Nixon and leaders of the nation prayed and worshipped Sunday in the White House with their eyes and thoughts fixed on

The President expressed confidence in a successful climax to the Apollo 11 mission to let two astronauts walk on the moon and then return safely to earth.

Asked after the services whether he thinks "they will make it," Nixon told reporters he doesn't know much about technical things and astronaut Frank Borman says it is a very difficult operation.

"But he points out that they have tested all the technical aspects over and over again," the President said, "and if he says it's O.K., I feel better about it."

Borman, commander of the Apollo 8 space voyage, read during the morning worship the first 10 verses of Genesis which he and his crew repeated back to earth last Christmas Eve while orbiting the moon.

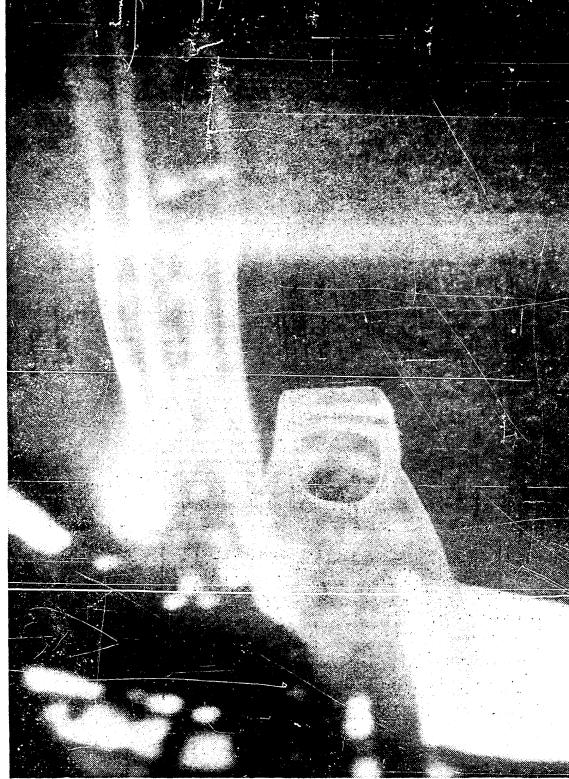
Sen. Mark O. Hatfield of Oregon, a leading Baptist layman, gave the invocation. Rep. John H. Buchanan Jr. of Alabama, an ordained Baptist minister, gave the benediction.

And Dr. Paul S dent of Nixon's alma mater, Whittier College, in California, delivered the sermon. He is a

There were prayers for peace President, who watched later on TV the progress of the space mission and the first footstep on To the Moon

Hatfield prayed for the safe

his faith in mankind was re-newed Sunday in the knowledge orbit created a mood of tension that countless millions in all na- among observers here, who won-tions were praying not so much dered if the latest correction was An assembly of about 4 tions were praying not so much dered if the latest correction was that one brave astronaut might a prelude to an attempted lunar set foot on the moon, but that landing by the Russians, ers, welfare recipients from Continued on Page 2, Col. 1 Continued on Page 3, Col. 4 Houston, gathered on the grass



Man on the Moon: Astronaut Neil Armstrong as he took man's first extraterrestrial steps.

A record 346 persons were in- Luna 15 Now and for divine guidance for the name of th

Israel, Egypt Stage Fiercest Aerial Battles Since 1967

@ N.V. Times News Service

Cairo - Full scale aerial cials reported the loss of two jet planes and said that five warfare erupted yesterday be-Egyptian planes had been shot tween Israel and the United down.) Arab republic.

attacks on Israeli radar sta-

that its antiaircraft gunners

and pilots had shot down 19

One Egyptian plane was

shot down, Cairo reported.

sites in the Sinai Peninsula.

The air fighting was the Israeli fighter bombers most severe since the six-day struck in successive waves at war two years ago. Egyptian military positions along the Suez Canal and

The implications of the Israeli attacks, called "vindicwere under "very seri-Egyptian aircraft followed with ous study" last night by Egyptions and antiaircraft missile tian leaders, according to

government

hammed H. el Zayvat.

Cairo reported at nightfall (Official spokesmen in Jerusalem said they bombed and strafed Egyptian Sam groundto-air missile bases, antiaireraft positions and artillery

spokesman, Mo-

Contrast at Houston Center

Houston - Inside, they lis-out of their seats.

A blonde girl tripped on the manuscratering of the manuscratering onstrate. One of them had a ransistor radio, but she turned off because the fuzziness

bothered her. Then came the words which released mortal men from the bonds of earth:

"Tranquility base here. The Eagle has landed." The press center reverberated

with cheers and whistles and ounding on desks. In Mission Control, arms

Today's Journal

Bay ShippingPage 36 Death NoticesPage 19 Dr. Van Dellen Page 26 Editorial PagePage 21 Financial News ... Page 27
Radio and TV ... Page 26
Sports ... Pages 12-18
What's Going On .. Page 36 Women's Pages ... Page 8, 9

Service (waved and technicians jumped) children of Houston" and "41

bursts of static and silence, the hardly to notice. A few scat- tures of their families before mother ship in lunar orbit 70 could find." Moscow — The Soviet Union clipped comments from two tered cheers arose from those the LM and peered through the miles above the moon surface.

'That's One Small Step For Man. One Giant Leap For Mankind'

Space Center, Houston—Man came to the moon and walked than 10 minutes for the more foot pressing into the lunar soil.

Wapakoneta, Ohio, was the first open. man to set foot on its alien soil, warming in the lunar sun-

Armstrong's first words on EDT. the moon were:

wind."

The first men to reach the moon — Armstrong and his co-pilot, Col. Edwin E. Aldrin watching his crewmate back out of the LM (Lunar landing craft to rest at 4:17 p.m. EDT on a level, rock-strewn plain near colors.

down a ladder to the moon's surface.

Armstrong picked up a piece of the moon and put it in his pocket.

Aldrin, watching his crewmate back out of the LM (Lunar around the lunar lander of "every shape, regularity, irregularity, every variety you'd find."

"Okay, Houston, I'm on the look of the moon and put it in his pocket.

Aldrin saw a rock collection around the lunar lander of "every shape, regularity, irregularity, every variety you'd find." rest at 4:17 p.m. EDT on a level, rock-strewn plain near the southwestern shore of the Transmility.

Knees.

"Okay, Houston, I'm on the porch," said Armstrong.
The first television view mil-

arid Sea of Tranquility.

Less than seven hours later, Armstrong opened the landing craft's hatch, stepped slowly down the ladder and planted the first human footprints on the lunar crust.

The first television view millions on earth saw was Armstrong's foot descending slowly. Then there was his full figure, shadowy, mostly a silloutte, but it was remarkably "The first television view millions on earth saw was Armstrong's foot descending slowly. U.S. Geological Survey—workstrong's foot descending slowly. The first television view millions on earth saw was Armstrong opened the landing craft's hatch, stepped slowly down the ladder and planted the first human footprints on the lunar crust.

The first television view millions on earth saw was Armstrong slowly. U.S. Geological Survey—workstrong's foot descending slowly. U.S. Geological Survey—workstrong's foot descending slowly. The first television view millions on earth saw was Armstrong opened the landing craft's hatch, stepped slowly down the ladder and planted ure, shadowy, mostly a sillout of the first human footprints on the lunar crust.

The first television view millions on earth saw was Armstrong's foot descending slowly. U.S. Geological Survey—workstrong's foot descending slowly. U.S. Geological Survey—workstrong in one of the science survey.

the lunar crust.

Outside their vehicle the astronauts found a bleak world. It was just after dawn, with the sun low over the eastern horizon behind them and the chill of the long lunar night still clinging to the boulders.

Outside their vehicle the astronauts found a bleak world. It was just after dawn, with the sun low over the eastern horizon behind them and the chill of the long lunar night at 11:01 p.m.

"Looking up at the Lem, I'm standing directly in the shadow now looking up at Buzz in the windows. I can see everything divided the properties of the control of the first things Arm-strong reported was: "The windows. I can see everything at 11:01 p.m.

"The surface is fine and pow. I can see the control of the first things Arm-strong reported was: "The windows. I can see everything at 11:01 p.m.

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in the small cabin into the near vacuum of the lunar wilderness, letting the environment of the his spacecraft. Then the moon, it with unmanned landers.

its surface yesterday, July 20, than 10 minutes for the pres-Neii A. Armstrong, 38, of drop low enough to permit it to dusty soil. His foot sank only

> Mission control gave the time eighth of an inch" into it, he for hatch opening at 10:40 p.m. said.

Then Armstrong emerged from the lunar lander named "That's one small step for Eagle and started backwards around."

Armst

horizon behind them and the at 11:01 p.m.

"The surface is fine and powdered charcoal small craters and hills before them.

At 10:26 p.m. the two astropauts began venting the oxygen strong reported.

"The surface is fine and powdered charcoal strong reported."

"The surface is fine and powdered charcoal strong reported to the soles of my boot. It is fine equipment.

"The surface is fine and powdered charcoal strong reported."

"The surface is fine and powdered charcoal strong reported."

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"The surface is fine and powdered charcoal strong reported."

"Th

the four saucer-like footpads of their recent years of poking at He was in the bitter cold of

Armstrong said the spacesure in the lunar module to craft's footpads had pressed only an inch or two into the a "small fraction - about an

> His first steps were cautious in the one-sixth gravity of the moon. But he quickly reported. "There is no trouble to walk

colors. This made Dr. Harold Masur-

He stepped first onto one of than they have gained in all

The back pack did cause The hatch is coming open," Junar shadows as the camera Continued on Page 3, Col. 1

'Tranquility Base, Here'

'The Eagle Has Landed'

C The Washington Post News Service
Houston -- In a spacecraft
called Eagle, two Americans
landed on the moon yesterday
- the first humans in history
to touch down on weather

heavenly body. The majestic moment for craft's guidance computer from astronauts Neil Armstrong and earth was said to have ac-Edwin (Buzz) Aldrin came at counted for the discrepancy. 4:17 p.m. EDT when they set

breathless world. "The Eagle field.

here," Armstrong replied. "It looks like a collection of "And don't forget one up just about every variety of tened to the jumble of navigational numbers, the frightening side, most of the people seemed them. Mostly, they took pic-Collins from his Apollo 11 said, "every variety of rock you ment."

touch down on another nated area. An apparent error might be a half mile or a mile avenly body. in some data fed into the away."

Suddenly the astronauts were their four-legged wingless land-startled to see that the coming craft down in the moon's puter was guiding them toward

"You did a beautiful job," ual control of the vehicle and be country basalt." Astronaut Charles Duke said guided it safely over the crater

from Houston's Manned Space-to a smoother spot. craft Center. "Be advised there's A few minutes later, Aldrin lots of smiling faces down gave a waiting world its first earth's.

ere." eyewitness description of the "There's two of them down moon's surface.

return of Neil Armstrong, Ed. win Aldrin and Michael Colling and for the thousands of support personnel who are "their brothers."

In the benediction, Buchanan asked that the Lord crown the Apollo 11 mission with success, bring the astronauts safely back and help the nation "in this experience to glorify You."

Dr. Smith told the assemblage his faith in mankind was rene tunned and mode of tension of the moon. The new Luna 15 is eliptical.

Dr. Smith told the assemblage his faith in mankind was renewed Sunday in me knowledge or the continued of tension of the moon of the moon of the moon. The new Luna 15 is eliptical of the moon of the moon audicated through the steady voices, and knots tight, with a portable radios, but most of the tourists were unaware of the

Armstrong what he said were rocks fractured by the exhaust of Eagle's

rocket plume. "Some of the surface rocks ing craft down in the moon's puter was guiding them toward a possibly disastrous touch.

"Tranquility base, here,"
Armstrong announced to a about the size of a football they display a very dark gray Armstrong grabbed the man-interior. It looks like it could

> Both men seemed to actually enjoy being in the moon's gravi-ty, which is one-sixth that of

airplane," Armstrong said. "It seems immediately natural to move around in this environ-

Armstrong and Aldrin an



Entertaining the folks at the Folk Festival yesterday, Donny Brooks and his harmonica.

-Journal-Builetin Photo by JACK SPRATT

Moon Tributes Close Festival keep the festivals in the state

Folk Festival ended last night with rain, an air of relaxed informality in the music and impromptu tributes to America's newest "folk" heroes, the moon explorers.

For this closing concert, 5,000 dedicated fans sat through a continuing drizzle which at least ended the dust bowl aspect of Festival Field.

Total attendance since the programs began Wednesday was 51,000, considerably below last summer's Folk Festival count of 73,700 and the all time record turnout of 80,000 at the turbulent Jazz Festival earlier this month.

But George Wein, producer of the festivals, said the festivals might be moved from Newport because the city may be too small to handle festival needs. A decision on whether to move may be made in August, he said.

He said he would like to

but hold them on another site roomy enough for the festival organization to deal directly with problems such as parking, accommodations and crowd control instead of relying on the local community.

Shortly before the scheduled moon-walk a quarter-million miles away, topical folk singer Len Chandler taped hastily composed lyrics to a microphone pedestal and sang an ode to "Moon Men Sailing the Black Sky's Silent Ocean."
Comparing their exploit to

that of Columbus, Chandler sang "Say that in peace you came and in peace you will remain and our horizons will expand 10 light years more."

The evening had another tribute, tee, in words and song honored hat honored a Negro ballacter who died in 1949, Huddie Ledbetter, the legen-

dary "Leadbelly. The Louisiana native, an ex- Convinued on Page 18, Col. 5

in obscurity, composed "Rock Island Line," "Good Night Irene," "Old Cottonfields at Home" and a myriad of other folk songs.

Listed to join in the Leadbelly homage were such performers as Pete Seeger, Bernice Reagon, Sonny Terry and Brownie McGhee, remaining members of the Dorression-era "Weavers" singing group, Fred Gerlach, like Leadbelly an expert on the 12-string guitar; Jesse Fuller and the Rev. Frederick D. Kirkpatrick.

The merry crewmen of Pete Seeger's Hudson River sloop Clearwater, as studiedly picturesque a group as you might find on any stage, were heard in chorus and singly, drawing heavy applause.

Gordon Bok, a young man from Maine with a fine bass

The Providence Journal

Souther South of the series of

Nixon Speaks To Walkers on **Moon Surface**

Continued From Page One three brave astronauts might again put feet upon the earth.

Five Reception Lines

This was an allusion to the nations and Communist Roma-

After the services there were five reception lines, rather than the customary one. The President and Mrs. Nixon, the preacher and his wife, plus Chief Justice and Mrs. Warren Burger, met guests filing through the State Dining Room.

In the Blue Room, Vice President and Mrs. Spiro T. Agnew and the Bormans received the guests. In the Green Room it was Secretary of State and Mrs. William P. Rogers and the Hat Secretary of Defense Melvin R Laird with Buchanan.

Bright Spot Is Sighted By Armstrong

Houston — Astronaut Neil and the spaceship's speed are frequire signals from either the Armstrong spotted a bright, all fed into computers before the mission starts, and common Saturday, in an area stantly updated from the hora astronamers in recent ground during the flight. Houston - Astronaut Nei

Years have seen fiashes some think could be volcanoes.

He was alerted by Mission Control here to a set of "lunar transient events" — temporary day's correction and ran only bright glows or flashes — observed by astronomers in several parts of the world Friday night in the association are fixed by mid-course corrections. But the shots are so true that flight controllers scrubbed Wednest transient events" — temporary day's correction and ran only served by astronomers in several parts of the world Friday night in the association are fixed by mid-course corrections were made, the spaceship would end up about 80 miles from the shots are so true that flight where they wanted to be.

The cld-fashioned sextant, invented in England in 1730, caused a great deal more troubles.

"Listen, babe," replied an excited Collins. "Everything's going just swimmingly. Beautiful."

Two ininutes later, Duk's made radio contact with Armstrong and Aldrin, as they flew into range.

"Listen, babe," replied an excited Collins. "Everything's going just swimmingly. Beautiful."

Two ininutes later, Duk's made radio contact with Armstrong and Aldrin, as they flew into range.

"We're standing by foryour's caused a great deal more troubles."

Astronomers in 31 countries ground breaks down.

"I'm looking north," Armstrong reported, "and there's an
area that's considerably more limited than the surrounding area. It seems to have a
slight amount of fluorescence to litin.

"I'm looking north," Armstrong reported, "and there's an
area that's considerably more limited than the surrounding area. It seems to have a
slight amount of fluorescence to litin.

"Engine stop"
His voice rose a little, as
It then, ground the moon, however. Man
Just about then, ground controllers discovered that the
Looking around a very quiet
mission control room, flight ditreatment of the spaceship, was obscuring
rector Gene Kranz simply said:
"We're off to a good start, Just
"Engine stop"
His voice rose a little, as
"You're right," said Collins.

Wuch of this early research
the first time and started freefalling to the moon.
"Okay, engine stop," he said.
"Okay, engine stop," he said.
"Okay, engine stop," he said.
"We're off to a good start, Just"
"Engine stop"
His voice rose a little, as
really sawing them avay.

Smith and low-residue on the moon, however, Man
Just about then, ground controllers discovered that the
first time and started freefalling to the moon.
"Okay, engine stop," he said.
"Okay, engine stop," he said. slight amount of fluorescence to tion.

in the Aristarchus area.

Many scientists think they may be some kind of fluores scent effect caused by the beat ing of solar particles on part

But some think they may be live volcanic activity - outpourings of smoke and gas — Apollo 11 caused by the earth's tidal pull yesterday. on the crust of the captive moon. Prominent among these is Soviet Prof. Nicolai Kozyrev who himself spotted some of ing sunlight and two weeks of

the most active events. If proved correct — it is far When the module landed the from accepted — this would sun was 10.5 degrees above the 53 Miles on Bicycles suggest that the moon may still horizon, having risen some 20 be a live place geologically

rather than one long dead.
The Apollo 10 astronauts also watched for such events bu

saw none. **Brown Professor**

Gets Space Post Bruno J. Giletti, a Brown Uni versity professor of geological sciences, has been named a member of the board of trustees

Europeans Entranced By Flight of Apollo

Paris — Not since Charles A. In Great Britain, well over indbergh flew the Atlantic 42 50 hours of direct television years ago has Europe hailed an transmissions, replays and American achievement with special programming of the uch enthusiasm, fascination moonshot will have been aired and abandon as it has in follow- by the time Apollo II returns ing the Apollo 11 moon flight. to earth. French coverage is Lindbergh's flight brought the less extensive but for the first

continents closer together and time the French Television is etchnow Neil Armstrong and his crew are bringing the planets closer together — with the added wonder, of course, of doing it all on television for a worldwide audience.

Timing of the moon venture was better for audiences in Europe than in the United worldwide audience.

enquering nation, if I dare call

rights.
"No propaganda, no brainout-of-place pride

continents closer together and time the French Television Net-

The European mood was well expressed by Alain Bosquiet writing in the Paris daily Combat. the rest of Europe last evening the rest of Europe last evening.
"As far as I am concerned, I Like the astronauts, Europeans recome the fact that the moon were able to get a night's sleep is being conquered by Americans. What interests me primarily is the attitude of the moon walk this morning.

The state television networks it that. The Americans — both in Poland and Czechoslovakia those of NASA and the general carried the launching live last public — consider rightly the Wednesday and were expected public — consider rightly the event as a triumph of technology and effectiveness.

"For the remainder, spare us philosophical considerations of which we have nothing to do . . . one cannot imagine an attitude more sympathetic, more respectful of the neighbor's intellectual rights.

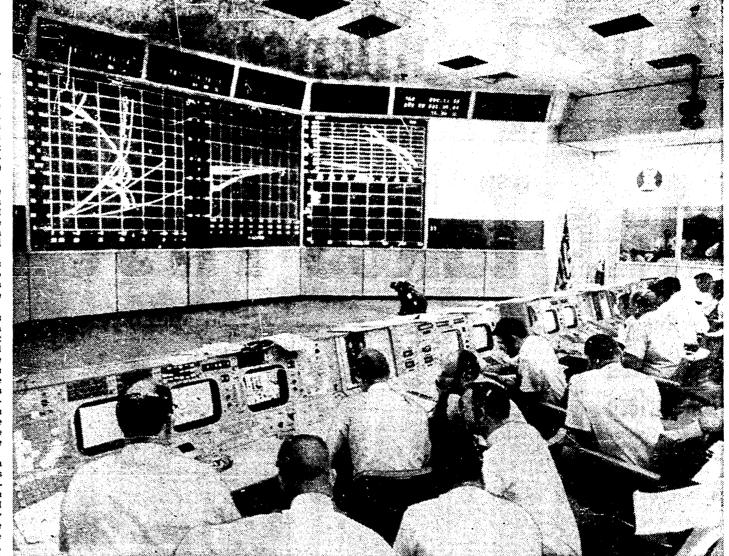
Wednesday and were expected to carry at least part of the live transmission of the moon walk. This, perhaps, forced the hand of the Soviet authorities who gave the launching an unusual 10 minutes of television last Wednesday night and have continued to give coverage which has been brief but more than ever before.

For Europeans It remains a

"No propaganda, no brain-washing, no out-of-place pride among those men . . . imagine those the moment of the American situation."

"No propaganda, no brain-washing, no out-of-place pride among those men . . . imagine those the moment of the American launch to put up their own situation."

"The Americans will cele-world here." For Europeans it remains a "The Americans will cele-brate the feat as an event that belongs to them but which be-longs just as well to all man-This was an allusion to the basis of posing as the amount of the property of getting the nations and Communist Roma- bassadors of the species. That message across to the rest of s self-evident and needs not to Europe and the world, it is be underscored."



Mission Control at Touchdown: This was the scene in Mission Control at Manned Spacecraft Center in Houston, Tex., showing the giant tracking screen at the time of touchdown of the Apollo II lunar module. Module is indicated by the white dot in lower left of screen.

Radar and Computer Handle Navigation

In truth, though, the astro-nauts of the spaceship's thrust-iront of the landing craft.

The route, the star sightings the spaceship's speed are the spaceship's thrust-iront of the landing craft.

"Columbia, Houston," said astronaut Duke from the Mann-require signals from either the color spaceship's speed are the spaceship's spaceship's speed are the spaceship's spaceship's speed are the spaceship's spaceship'

type of sextants that sailors stay in a fixed position, no at the time and out of radio nine minutes."

At this point.

At this point.

parts of the world Friday night in the area of the crater Aristarchus.

Aristarchus was 454 miles north of the spacecraft track.

Astronomers in 31 countries ground breaks down

are manning a lunar international observers network—Proj.

Astronomers in 31 countries ground breaks gown.

For most of the trip to the earth's atmosphere was confusional observers network—Proj.

Moon, the astronauts could sit ing Collins' view of the horizon

frigid darkness.

earth hours earlier

When the module lifts off the

Arson Is Suspected

In Springfield Fire

Springfield, Mass. - (AP)

cious fire in recent weeks.

ire officials suspect arson in

Burning the engine for 27 sectors to the moon? They combine the most complex radar and committies, controls the system. It down and start it falling, the puter equipment with the same type of sextants that sailors stay in a fixed position, no at the time and out of radio.

Burning the engine for 27 sectors, the system. Burning the engine for 27 sectors, the system. Burning the engine for 27 sectors, the system of the miles an hour, then it was sud. "Keep that orbiting base up there ready for us now," radioed the reready for us now," radioed there ready fo

In truth, though, the astro-bursts of the spaceship's thrust-front of the landing craft.

flight director, said that the

Capsule communicator Bruce play it cool."

In terms of an earth day,

Twenty-four members of Boy

Scout Troop 14 of North Kings-

at Camp Yawgoog in Rockville.

trip to complete the require-

atory in Bochum, Germany, soon confirmed Armstrong's report.

Hundreds of such events have been seen on the moon by as-man's inner ear corrects his rectly. Collins was right all along."

It's Morning — Moon-Time

Houston —In "moon time" moon about 2 p.m. EDT today

Apollo 11 lunar module landed to 21 degrees above the horizon.

When the module landed the 24 Boy Scouts Travel

long, with two weeks of scorch-a half after sunrise.

'The Eagle Has Landed'

Continued From Page One Continued From Page One

fired up their landing craft's Eagle," Duke said.

A minute later, it was 500 job.

A minute later, it was 500 job.

have used since the 18th century.

This platform is aligned to certain stars' points and provides a fixed reference to measure open seas. Astronauts can find their way to the moon and back by taking sextant sightings of stars and the earth's horizons.

In truth, though, the astro
In truth, though, the astro
matter what the spaceship does. Ilink with earth.

It wasn't until 3:47 p.m. that the men at the Manned Space-raft to the moon's surface, coming in sideways and downwards only strong and Aldrin were on their way down —and they heard it first from Collins, who flew pitch, for example — automatically triggers short, correcting command craft above and in front of the landing craft.

At this point, the two explorers all had been written by some but the men at the Manned Space-raft for the moon's surface, coming in sideways and downwards only 5,200 feet above the moon.

When the Eagle dropped to Cliruth told one newsman, "but boy is this a tense and unreal time for me." Preparing for item in the way down are go for land-down from behind the moon in the busiest and most historic large." The large way down are go for land-down from behind the moon in the front of the landing craft.

"We've done everything humanly possible," Manned Space-raft Center heard that Armstrong and Aldrin were on their final approach to the moon's surface, coming in sideways and downwards only 5,200 feet above the moon.

When the Eagle dropped to Cliruth told one newsman, "but boy is this a tense and unreal time for me." Preparing for the radio, his voice tense and time for me." Preparing for the prevention of the radio, his voice tense and time for me." Preparing for the work of the moon in the form of the radio, his voice tense and time for me." Preparing for the work of the moon in the form of the radio, his voice tense and time for me." Preparing for the work of the moon in the form of the radio, his voice tense and time for me." Preparing for the work of the moon in the form of the radio, his voice tense and time for me." Preparing

it go?"

Two minutes later, Duk | feet.'

drin told him.

the men in the Mission Control Center bent their backs to the toughest job they'd ever had ect Lion—to keep an eye out back and leave the steering to the earth and one that disappeared as the spaceship drew around the moon, however. Man further away.

The looking north," Arm—to looking north," Arm—to looking north," Arm—to looking north," Arm—to looking north, as a looking leave the steering to looking the two spacecraft the earth and one that disappeared as the spaceship drew around the moon, however. Man further away.

The looking north," Arm—to looking north, are looking leaves a looking leaves and leave the steering to looking the two spacecraft the earth and one that disappeared as the spaceship drew around the moon, however. Man further away.

oscillation rate now. Still falling, the Eagle was gion of the Sca of Tranquility for a minute.' at an altitude of 53,000 feet Collins brok and only minutes away from its second critical maneuver —

surface. it was about 7 a.m. when the the sun will have slowly climbed Duke radioed. "You are go for at Tranquility."

When the sun will have slowly climbed Duke radioed. "You are go for at Tranquility."

It seems she was banshing the sun will have slowly climbed Duke radioed. "You are go for at Tranquility."

It seems she was banshing the sun will have slowly climbed Duke radioed. "You are go for at Tranquility." a powered descent.' "Roger." Armstrong replied softly. "Understand."

The lunar day is four weeks this would be only an hour and At 4:05, Armstrong began it down toward the lunar sur-there a while.

"Light's on," he said, "Des-answered,

Two minutes later, it was then that Armstrong "We'll keep a close eye for plain to everybody listening that fly the spacecraft in manually Just after 9:30 am as the they were indeed on their way to avoid a forth-line manually of the spacecraft in "Show an altitude of 47,000 "It really use

Warning Lights

a blaze that struck a two-story ments for a merit badge in Still calm, Aldrin said he bigger than 10 feet around." residence Saturday, forcing a bicycling, left at 8:15 a.m. from noticed a few warning lights He said he wasn't sure couple to flee.

'You're looking great to us, Collins said. "It sure looked

"You're looking great at the entire day seemed incredi-

"Eagle, you are go for land-day of their lives, the three

Final Approach "Eagle, you're looking great," Duke said, "You're go at 1,600

made radio contact with Arm-strong and Aldrin, as they flew rapidly to read off his altitudes two hours later, at just after

and pitch angles — the angle at which the spacecraft was falling toward the lunar surface.

"Three hundred feet," he said.

"Three hundred feet," he said, is the first wake-up call, flights, for example, was deduced feet. Three and a half down. Okav. Seventy-five feet. "Good morning from the Black to swallow in the weightless dred feet. Three and a half "Rog, copy," Duke said.
'Looks great." At this point, Lookin' good, Down a half." "Sixty seconds," Duke said.

some dust. Great shadows."

"Four forward," he went on. "Drifting to the right a little."

"Engine Stop"

coming up over the eastern re- replied. "We're going to be busy making, then sent them up a

Collins broke in from his lone-

"Good show," Collins said. "Fantastic." "We Thank You" Five minutes after touchdown

"We thank you," Armstrong

oigger than 10 feet around." everything was in working taking a stroll.

He said he wasn't sure of order. Forty-five minutes later, a blaze that struck a two-story ments for a merit badge in objecting, left at 8:15 a.m. from noticed a few warning lights coming on inside the spacecraft. The said he wasn't sure of order. Forty-five minutes later, a shopping plaza on Post Road in gradient struck a two-story ments for a merit badge in objecting, left at 8:15 a.m. from noticed a few warning lights coming on inside the spacecraft. The said he wasn't sure of order. Forty-five minutes later, a shopping plaza on Post Road in gradient struck a two-story ments for a merit badge in objecting, left at 8:15 a.m. from noticed a few warning lights bis location on the moon either. Armstrong joined him. The said, "the guys who on their 13th moon orbit, and arrived at the camp and arrived at the camp bosition checks downrange show inside the spacecraft. Well," he said, "the guys who said we wouldn't be able to give the two spacecraft even go for DOI." And moving off about 40 or 50 feet from the command craft, which command craft,

member of the board of trustees of the Universities Space Research Association, an organization for the advancement of space research.

As a trustee, Professor Giletti, As a trustee, Professor Giletti, and spread to the rear porch of their house were accompanied by the rear porch of their house in the responsible for the establishment of research laboratories concerned with space science and technology. He will also westley D. Finkle Jr. of New The merit badge requires 200 the entitled to use facilities of York City was killed Saturday miles of bieyeling, according to the Manned Space Center in the Manned Space in the Manned Space Center in the Manned Space Center in the Manned Space in the more in the Manned Space in the in the inter 70s, escaped at the Space in the Manned Space in the in the inter 70s, escaped at the Space in the Manned Space in the interior to so a little long."

Mr. and Mrs. Nathan News Sight Angle

Collins was flying alone.

Sight Angle

Armstrong re

great. You guys did a beautifu

"We've done everything hu-a breakfast of bacon bars, consists of the "spoon-and-bowl" the busiest and most historical latest step in the evolution of A typical menu crewmen hadn't even gotten to

conditions of space.

they all go to bed.

First Asleep Armstrong and Aldrin were from subsistence to some measthe first to go to sleep, and ure of luxury.

Team.'

It was Collins who answered "Lights on," Armstrong refirst, even though he'd had the tists suggested growing algae aging, according to Dr. Malcolm lied. "Forty feet. Kicking up least sleep. "On my, you guys and keeping small animals Smith, chief of nutrition for the

wake up early," he said.

"You're about two minute early on the wakeup," Evans conceded. "Looks like you were really sawing them away."

You're about two minute early spacecraft of a sturdy basic quirements in space do not differ from those on earth. Dr. Smith said a low-residue or low-

"Okay, engine stop," he said.
"Override off. Engine arm off."
There was a pause — then "Black Team's been watching it which has had commercial suchish fat and carbohydrate val-

little Chinese mythology.

"An ancient legend says some spot 70 miles above the beautiful Chinese girl called moon, wanting in on the historic conversation.

"He has landed," Duke insaid. "It seems she was banish-lit look?"

"He has landed," Duke insaid. "It seems she was banish-lit look?" from her husband.

"Large Rabbit"

"You might also look for her companion," Evans went on "a standing on his hind feet in were shipshape. the shade of a cinnamon tree." "Check that tracking ligh "Okay," Armstrong answered. Mike," Armstrong told Collins.

heavily cratered and some of oxygen flowing into the once missing a word, sounding the large rocks may have been spacecraft and make sure totally composed, like a man

Astronauts Getting Nearly Normal Meals

were getting ready for supper, Apollo 11 mission does not dif-but the Apollo 11 crewmen were fer appreciably from that on peaches, sugar cookie cubes, dishes; freeze-dried, ready-to-pineapple-grapefruit drink and eat cubes and newer "wet-pack" foods that are cooked and

latest step in the evolution of A typical menu includes space cuisine from tasteless Canadian bacon and applesauce, purees squeezed out of tooth-corn flakes and peanut cubes for sleep until after 1 a.m. — and paste tubes, as during the breakfast; shrimp cocktail, ham it was the ground that suggested Mercury space program of 1861- and potatoes (a wet-pack). 63, to nearly normal meals in fruit cocktail and date fruit-the Apollo program. That is, cake for lunch, and beef stew,

and grape punch for supper.

Fresh fruits and snacks, in-Even before man ventured into space, scientists worried cluding candy bars, dried fruit about his ability to nourish him-

time in lightweight metal cans. The cans are part of a continuing experiment with pack-For very long flights, scien-

Evans first told them about cooled to 140 degrees. Under natural foods — which are not "Okay, stand by." Armstrong all the headlines they d been these conditions, the ice crystals necessarily low in residue formed by the freezing change they create a bigger problem

it look?' "Eagle Has Wings" "Eagle has wings,"

Armstrong's simple reply. For awhile, all three men did light on, please. was look each other over, to throttling up the engine to slow Duke told them things looked large Chinese rabbit, who is the Eagle down again, to drop good enough for them to stay easy to spot since he is only make sure the two spacecraft Aldrin.

"Check that tracking light,

"Okay," Armstrong said next, "I'm ready to start my yaw Just after 9:30 a.m., as the maneuver if it suits you, Mike." town pedaled 53 miles yesterday they were indeed on their way to avoid a football-sized crater three men began their 11th orbit Aldrin got on next, reading tenths of a mile apart.

on a bicycle trip that ended down to the moon.

and a large rock field.

of the moon, Aldrin got into off what seemed like endless of said. "I'm continue to a mile apart."

"Rog." Collins said. "I'm continue to the moon, Aldrin got into off what seemed like endless of said. "End of the moon, Aldrin got into off what seemed like endless of said. "Show an altitude of 47,000 (ret." Armstrong said. "Every-thing looking good."

The youths, who made the thing looking good."

add water, rehydrating the food.
In general, the food on the

The meal was part of a 70-stored in flexible cans made of

coconut cubes, banana pudding

Fresh bread, which was part flights, is aboard again, but ac-companied by meat and fish salads packaged for the first

slight amount of fluorescence to it—the area around the crater is quite bright."

Project Lion coordinators at the Smithsonian Astrophysical Observatory in Cambridge, Mass., promptly alerted their worldwide observers. An observatory in Bochum, Germany, soon atory in Bochum, Germ

ing most of the food's natural ment system."

"Somebody's upside down," Armstrong told him.

Just then, Collins asked Armstrong: "Put your tracking "It's on, Mike," answered

"Give us a mark when you're at seven tenths of a mile " Duke said to Collins from the ground. Moments later, Duke told Col-

lins the big radars on the ground showed the two spacecraft seven

the once missing a word, sounding the go-sign for the first maneuver (the so-called descent maneuver) to take

the majestic drama began to SNORING IS FATAL Berlin - (AP) - A 71-year-

old resident of a West Berlin retirement home beat his roommate to death with a chair, He told police the other man's to snoring made him nervous.

2 Astronauts Take First Steps on Moon

Continued From Page One some problem in mobility. Its high center of gravity on his back tended to "pull him back," Armstrong said. It was hard to bend down. And the astronauts moved with glacial slowness. They will look forward to getting the more mobile space suits now being developed for future landings.

Aldrin also soon reported that the "powdery" surface of the lunar rocks made them "rather slippery."

On the ground, the chief flight surgeon, Dr. Charles Berry, reported: "The crew is doing well. The data is good" the readings from heart tracings and oxygen use and cooling inside the space suit.

the contingency sample of lunar ladder. rocks - to be man's first and quickly made a report that

"Vesicles" are little holes "Vesicles" are little holes Armstrong stood at the foot once filled by gas. This means of the ship's ladder as Aldrin these are chunks of once-gas- began his climb down. filled volcanic lava coughed up ternal events - a clue that Aldrin. seemed to say: "Much of the moon may be volcanic."

one of their main jobs. Walk-moon. ing "several hundred feet might be tiring," Aldrin reported, "but this may be a function of the "Magnificent desolation." sale

Armstrong moved slowly in the strange world of gravity only one-sixth as strong as earth's, but he appeared to Armstrong moved slowly in "Hey Neil, didn't I see some purple rocks," Aldrin said a few minutes later.

"Find a purple rock?" Armstrong moved slowly in the strange world of gravity only one-sixth as strong as the strange world of gravity only one-sixth as strong as the strange world of gravity only one-sixth as strong as the strange world of gravity only one-sixth as strong as the strange world of gravity only one-sixth as strong as the strong as the strong world in the strange world of gravity only one-sixth as strong as the strong world in the strong world in the strange world of gravity only one-sixth as strong as the strong world in the strong world world in the strong have no difficulty.

The dark outline of one of "Yep." Aldrin replied.

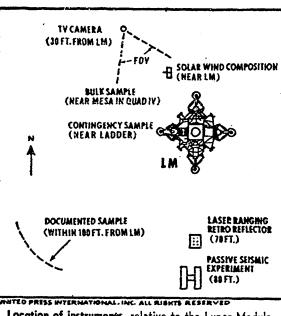
the lander's four legs was clearly visible on television against

He said some rocks were The dark outline of one of

ert of the United States. It's Armstrong and Aldrin began different but its very pretty their preparations at 7:42 p.m. to the command module.

strong's arms working at something on the front of his space-other accourrements of survival suit. He apparently was un- in a world so unlike their own packing a camera. He turned, taking pictures.

'Ready for me to come out?"



Location of instruments, relative to the Lunar Module. that were placed on the moon by the Apollo II astronauts are shown in this drawing. The television camera 30 feet from the module enabled people around the world to view man's first steps on moon.

"Armstrong began gathering he climbed down the nine rung ried it over the surface, clearly

"The descent engine did not leave a crater of any size.

"Be advised that a lot of the hard rocks appear to have vesicles in the surface."

OK, you saw what difficulations with the surface was having." Armstrong told Aldrin as he guided him out of the ship's hatchway. out of the ship's hatchway.

"You're right at the edge of

to the surface by powerful in- the porch," Armstrong told

Although Armstrong's foo appeared to hit the surface at The men kept working and 10:56:31, the space agency gave evaluating — preparing the 10:56:20 as the unofficial time grain." At another point he reway for future moon-men was of his first footstep on the ferred to the "sandy surface."

"Magnificent desolation," said

"Find a purple rock?" Arm

strong asked.

rd and very cohesive. | Chores delayed the moment two astronauts completed their "It has a stark beauty all of "We'll support you any time." "It has a stark beauty all of its own. Its much like the des-said mission control.

out here," Armstrong said. Donning their heavy, double-Television showed Arm-visored space helmets, their oxygen-providing backpads, the

Armstrong and Aldrin were not visible to the third Apollo 11 astronaut, Air Force Lt. Col. Michael Collins locked in

the surface rear Eagle. Armstrong moved about 40 to

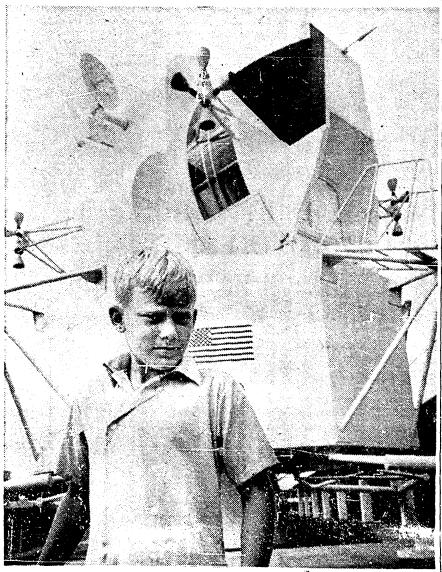
be small loose rocks and pocked valuable than, manned ships. with little craters a foot or two in diameter.

Armstrong said the lunar space."

experiments and returned to the

Memorial Smeared

Berlin - (AP) - A memoniversary of the thwarted at-



Visiting Dad's Shop: Andrew Aldrin, 10, in front of a model of the Apollo 11 Lunar Module at Manned Spacecraft Center, Houston, Tex. His father was in the module.

ïass Gives Report On Moon Landing **Just Minutes Later**

Moscow - (AP) - The Soviet news agency Tass reported the lunar landing yes-terday within minutes of the touchdown by U.S. astronauts.

In a dispatch from New York, it said: "The lunar module of the spaceship Apollo 11, with N. Arm-strong and E. Aldrin on board, has touched down on the moon in the Sea of Tranquility. The astronauts are still in the modulc. Their walk out onto the surface of the moon is planned for the morning hours of July

Luna 15 Now In Orbit Close To the Moon

Continued From Page One perhaps even in the same vicini-ty where the Americans landed.

Soviet officials had given showing small craters pitting assurances to the Americans the surface rear Eagle. that Luna 15 would not interfere with the Apollo mission, but the must have made every geolo- we're on a very level place gist and lunar scientist in the here," Armstrong said. showed television viewers the speculation that the Russians with the speculation of the speculation with the speculation of the The terrain around the space-craft appeared very flat, litunmanned with what appeared to craft are equal to, if not more

> As usual, Tass gave no in formation on the eventual goal Armstrong planted the American flag on the surface at 11:43 p.m. EDT.
>
> Armstrong cold the luna 15 continues scientific exploration in the near moon outer

Week Ago Yesterday

Many observers here believe lunar module for a rest period that Luna 15 would continue prior to the blastoff and return the research started by previous unmanned craft in the Lun: series that orbited the moo but did not return to earth But Communist sources have rial to a group of men who tried to assassinate Adolf Hitler was found smeared with swaswas found smeared with swas-tikas yesterday, the 25th an-

short news items on the progress of the Apollo mission but Russians wanting a full account of the flight had to have good short wave sets and a people came to life, clapping knowledge of a foreign language.

Russian language broadcasts of the sky Japanese lawsy" said Mrs. June Adams of the short to be full flower to be flower to be full flower to be fu knowledge of a foreign language. and yeiling and, increalory, at may be mainted to think the search, pointed and pointing at the sky. Japanese away," said Mrs. June Adams of onstrators sang, "He got the prevoidence boy on Fower Street the British Broadcast in g bizarre impression of the Amer-corporation were heavily jam-lican reaction.

On the lawn, while the demonstrators sang, "He got the prevoidence boy on Fower Street we're near all this." She lunar module in his hands. He's near Benefit Street. His primites to make the search, poince appropriately and got the astronauts in his hands, were "very slight," East

med as usual.

It was bizarre, though, and smiled selfconsciously. "All you the anger of a space-program of the difficult to understand. The can do is say, 'God bless them' employe boiled over.

Apollo lunar module was not NASA technicians, who are and pray."



Half Billion Watch Moon Show

By THE ASSOCIATED PRESS | thetic aurora borealis, a dance | for 1,100 prisoners in two hono Back on earth yesterday, performed in a moon bubble un-blocks. President Nixon and half a bil-der black light, and the drop-Disneyland at Anaheim, Calif., Week Ago Yesterday lion other people watched the ping of colored parachutes from reported unusually good place at 5:16 p.m. Moscow estimated.

Tass said the latest maneuver moon show on television, experts a 19th century balloon by "parachute sculptor" Yukihisa Isobe. Moon" ride.

Other big TV screens were In Nashville, Tenn., Criminal

ferred to the "sandy surface."

The astronauts took spectacular television shots of the time yesterday (10:16 a.m. Another billion couldn't sec it because it was not shown in the showing the ungainly lunar lander.

The men moved around with a shuffling gair, almost as though they were in a water ballet.

Another report: "A larger rock, very rounded, sticking out about one foot—it's standing on about one foot—it

Another report: "A larger rock, very rounded, sticking out rock, very rounded, sticking out one foot—it's standing on edge." This seemed to be part of the ejecta—material thrown of the ejecta—material thrown miles from the lunar surface.

Another report: "A larger rock, very rounded, sticking out rock, very rounded, sticking out from the moon surface.

Yesterday's correction There were prayers for the pagne from hundreds of bottles the lyrics.

There were prayers for the pagne from hundreds of bottles the lyrics.

There were prayers for the pagne from hundreds of bottles the lyrics.

Near Pittsburgh, Supervisor prayers. Together with the moon module landed.

Edward Ingram of suburban whole Catholic Church, Pope where.

Casinos in Rono, Lake Taboe Moon Township announced that Paul VI salutes you."

of the ejecta—material thrown morns and assumption and potassium from a strong appeared as a dark shadow.

Armstrong appeared as a dark shadow.

Aldrin was the thought one carter impact some form the morn morns that was preparing to form the morn on earth.

Aldrin was down the moon because of the ejecta—material thrown morns and many throughout the strong throughout the strong throughout the strong weighed only 60 pounds on the moon but on aldrin.

Armstrong weighed only 60 pounds on the moon that the strong weighed old own with a sample control to step outside the spacecraft several hours proceed and thickly lined was presented to the spacecraft several hours proceed and thickly lined weighed soft) pounds.

At 11:06 p.m. EDT, the surface appeared his to down with a sample control the longed on the spacecraft several hours of soil, the surface appeared his to soop up two pounds of soil the surface appeared the surface appe

Contrast at Houston Center

"Stand by just a second," a lonely patrolling orbit in the Armstrong replied.

The camera that televised the historic moment to earth was mounted inside an equipment by that Armstrong opened as module stowage area and carbon command storage and carbon command ship Columbia, some act years of the painted symbols of the Nazi regime and a city government spokesman ship that Armstrong opened as module stowage area and carbon command ship Columbia, some form the Nazi leader's life. Police removed the painted to Luna 15 and most Russians families waited for their turn inside the tourist tent where said he viewed the smearings with "anger and disgust."

So far, Soviet news media when it's going to be on TV?"

Down the walk, a line of the walk as a paint of the trium to the walk, a line of the walk as a paint of the walk as a second. The walk as a paint of the walk a

reported immediately on radio, supposed to be bloodless, un-but later Moscow radio briefly emotional creatures, and the were less emotional because announced the lunar touchdown. news people, who are supposed they were more confident—or

Pasadena, Calif, replied laconically. "Well, I hope they get off all right. Say, do you know when it's going to be on TV?"

Town the mark of the hazards in-where they lost track of the area said triumph. Yet the just ordinary folks nearby seemed when it's going to be on TV?"

Town the mark of the hazards in-where they lost track of the car. Residents of the area said they heared several gunshots.

Town the mark of the hazards in-where they lost track of the car. Residents of the area said they heared several gunshots. crafton each zig and zag of its descent the way the insiders smashed against a house at 4

Harrison from the ring of by-standers He pulled dollar bills East Providence police said standers. He pulled dollar bills from his wallet and waved them may be sent to Family Court. at the black demonstrators, "I feed you."

of those big cafeterias where w can't go," a black woman yelled Famous Location

"Why don't you go out and

Pontiff Urges World Not to **Forget Wars**

Castel Gandolfo, Italy (AP) - Pope Paul VI warned Sunday that the wonders of space technology should not distract attention from four wars plaguing the earth.

In a strongly worded speech at his weekly Sunday noon blessing, the Pope called July 20 "a great day, a historic day for humanity, if it is true that to-night tup money and the strong true money and true night two men will set foot on

"Admiration, enthusiasm and passion for instruments, for the products of man's hand fascimate us, perhaps to the point of madness," the Pope told thou-sands of pilgrims at his summer palace. "But this is the danger: we must beware of this wor-

The Pope also noted that amid the joy of this fateful day .. we must not forget the need and the duty that man has to dominate himself."

"There are still, we know, three wars in progress on the face of the earth: Vietnam, Af-rica and Middle East. A fourth has now been added, with thou-sands of victims between El Salvador and Honduras, in these very past few days. And then hunger still affects entire populations."

Pope Paul hailed the Apollo 11 astronauts later as conquerers of the moon and said man looks forward to "the expanse of endless space and a new destiny."

The 71-year-old pontiff, who

on the huge screens along with and the Homeward Bound. a moment of silent prayer for artoons and movies of past imaginary moon trips.

The warden of San Quentin the astronauts' safe return, then aginary moon trips.

Prison announced TV could run the crowd joined in singing police request. The chase continued a syn-past the usual 11 p.m. curfew "America the Beautiful." 195 into Providence.

East Providence police followed the car down the South Main Street and then Power Street Continued From Page One to be cynical and unexcitable less aware of the hazards in-where they lost track of the

Providence detectives said. Police yesterday were seeking second youth and a young "Are you people hungry? adult in connection with the inciere's a dollar" shouted John dent. Both were injured, ac-

that ain't enough, here let me Landing on Moon "Take us out tomorrow to one Linked by TV to

Kill Devil Hills, N.C. -(AP) work and get yourself some — When the Apollo 11 astronauts food?" Harrison shouted back. landed on the moon, they were

nounced that television sets were installed adjacent to the stone marker located at the site accused Harrison of speaking on Dec. 17, 1903. He said the for the John Birch Society, but memorial also remained open to the public last night during Hulbert James, the leader of the moon landing phase of the

The special service was ining that this should be the last itiated at the request of flight enthusiasts, he said.

\$225 Taken in Break

The Springmeyer Corp., 310 lailow the mission controllers to a pressure of 1,000 pounds per Duisine, a night rain started and the black children hudiled Canal St., was entered Saturday under the huge lunar module to night and \$225 was stolen from a locked file cabinet which was value. Neil A. Arristrong and Much of the latter can be infer-allow the astronaut to generate Inside, a habble of strange forced open. William T. Jarvis Pounds and the black children hudiled Canal St., was entered Saturday under the huge lunar module to night and \$225 was stolen from a locked file cabinet which was value. Neil A. Arristrong and Much of the latter can be infer-allow the astronaut to generate Inside, a habble of strange forced open. William T. Jarvis Pounds and the black children hudiled Canal St., was entered Saturday under the huge lunar module to night and \$225 was stolen from a locked file cabinet which was value. A prostrong and the black children hudiled Canal St., was entered Saturday under the huge lunar module to night and \$225 was stolen from a locked file cabinet which was value. A prostrong and the black children hudiled Canal St., was entered Saturday under the huge lunar module to night and \$225 was stolen from a locked file cabinet which was value. The provider of t Edwin E. "Buzz" Aldrir Jr., each red from heart action and ox-4,800 BTU's (British thernal tongues dominated the press of 25 Berwick Place, East weighed about 165 pounds when yeen consumption.

The space suit and its portable for about four hours, more or on the air in French, Spanish, police. Police said it had not a property to the property weighed as a commentators when the providence, an employe, told the providence and the providence are employed.

Moon Walker's Costume The materials of the space ferent companies, but for

Houston — The proper cossument and its life-support package moon walk each is as necessary tume for a stroll on the moon include plastics, synthetic fibers, as the other.

weighs more than the man who wears it and is almost as self-gold.

The materials of the space terent companies, but for a moon walk each is as necessary moon walk each i ufficient as a space ship.

sufficient as a space ship.

The moon-walk costume car fires its own supply of electricity, than a garment because it must carry its own atmosphere and offer protection against total vacuum, extremes of temporation and the risk of subject that a steady and the risk of subject to the supplementation of the supplementatio

Yet, it must be flexible enough to earth. struments on the lunar surface nine different kinds of informa-

ded if he fell down.

The moon-walk costume car- Division of United Aircraft Cor-

Its flexibility is just great and voltage, oxygen supply enough to meet that need. An astronaut in the lunar suit can other readings of the tember of the support system, and his head and only as far down as his knees. He couldn't stoop over to tie a shoelace — even if he had shoelaces.

Toobably he couldn't get up in the different kinds of information of the temperature and pressure, four on the chest, carries the radio on the speaking on Dec.

Another separate unit, worn of the supplication of the John Birch Society, but others applauded him.

Hulbert James, the leader of the demonstrators, handed him a stack of literature proclaiming that this should be the last space shot until America's little more than a pound of on the chest, carries the radio others applauded him.

Hulbert James, the leader of the moon mission.

The speaking on the chest, carries the radio on the chest, carries the radio others applauded him.

Hulbert James, the leader of the moon mission.

The speaking on the chest, carries the radio others applauded him.

Hulbert James, the leader of the moon mission.

The speaking on the chest, carries the radio others applauded him.

Hulbert James, the John Birch Society, but of the pounds of other sapplauded him.

Hulbert James, the John Birch So

by the Hamilton Standard

the risk of a hurtling chatter of automatic signals to the flexible enough. oxygen supply to augment the the moment. stone marker located at the site state the wearer can walk. For the guidance of mission main system's capacity of The confrontation ended sul-where Orville and Wilbur Wright four hours without lenly. Someone in the crowd flew their first powered airplane struments on the lunar surface. In the different kinds of information of speaking on Dec. 17, 1903. He said the

allow the mission controllers to a pressure of 1,000 pounds per Outside, a light rain started

everything weighs one-sixth its lite support system were less, depending on how much Japanesc, Italian to tell the been weight on earth.